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Vocabulary Builder Reference from...

Laura Robinson: The secrets I find on the mysterious

ocean floor | TED Talk

https://www.ted.com/talks/laura_robinson_the_secret

s_i_find_on_the_mysterious_ocean_floor



Advanced Words Only

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Session 1: Word List

fossilized

 adj. transformed into a fossil (= something preserved in rock for a very long period) or preserved in the form of a fossil; antiquated or inflexible

synonym: petrified, ossified, preserved

(1) obsolete **fossilized** ways, (2) a **fossilized** grove The dinosaur bones were so old that they had been wholly **fossilized**, turning to stone over millions of years.

equator

- an line of latitude that separates Earth's northern and southern hemispheres and has a radius of around 40,075 kilometers (24,901 miles)
- (1) south of the **equator**, (2) above the **equator** Ecuador is on the **equator**.

icecap

 a mass of ice that permanently covers a considerable area of land, typically found in polar regions

synonym: glacier, ice sheet

(1) the shrinking **icecaps** in the Arctic, (2) receding **icecap**The melting **icecaps** are a clear indication of climate change.

hemisphere

- n. half of the terrestrial globe; half of a sphere
- northern hemisphere,
 cerebral hemisphere
 this weather pattern is unique to the southern hemisphere.

plunge

v. to dive quickly and steeply downward; to thrust or throw into something; (noun) a steep and rapid fall

synonym: dive, drop, thrust

(1) **plunge** into the water, (2) **plunge** a dagger through his heart

The company's profits **plunged** after the recall of their new product.

abyss

- n. a deep, dark, or seemingly bottomless chasm or voidsynonym: chasm, cavity, gulf
- (1) the **abyss** of time, (2) an **abyss** of hopelessness The deep sea is an **abyss** of mystery and discovery.

iceberg

a large piece of ice floating in the sea, detached from a glacier

synonym: glacier, ice mass, floe

(1) hit an **iceberg**, (2) **iceberg** melting

The ship encountered a series of **icebergs** and had to change its course.

plateau

n. an elevated, relatively level expanse of land, typically vast and extending over a large area; a state or period of little or no change following a period of growth, development, or progress

synonym: mesa, tableland, plain

(1) plateau region, (2) plateau in performance

The hikers finally reached the **plateau** after a long climb up the mountain.

seamount

 an underwater mountain or volcano that rises from the ocean floor but does not reach the surface, often forming a peak or cone-shaped landform

synonym: seafloor mountain, submarine volcano

(1) underwater **seamount**, (2) volcanic **seamount Seamount** chains are formed by the movement of a tectonic plate over a hotspot.

seafloor

n. the bottom of the ocean

synonym: ocean floor, benthic zone, abyssal plain

(1) seafloor exploration, (2) seafloor mapping

The oceanographer studied the **seafloor** topography to understand how it had changed over time.

taxonomy

n. the classification or scientific study of organisms, including their relationships to each other, based on shared characteristics and traits; a system of organizing and categorizing information in a particular field or subject area

synonym: classification, categorization, hierarchy

(1) taxonomy system, (2) biological taxonomy

The **taxonomy** of insects is incredibly complex due to the huge number of species.

brittle

adj. easily broken, cracked, or shattered when subjected to pressure or stress; lacking flexibility or resilience; fragile synonym: fragile, breakable, delicate

(1) brittle bones, (2) brittle material

The old books in the library were so **brittle** that they crumbled upon touch.

tentacle

- n. a flexible, mobile, and long arm-like organ used for feeling and holding things, catching food, or moving
- (1) a squid's **tentacle**, (2) posterior **tentacle**

The police caught the fugitive criminal in the **tentacles** of an expanded investigation.

carbonate

- n. a carbonic acid salt or ester that contains the anion CO3
- (1) sodium carbonate, (2) alkaline carbonate

The explosive chemical reaction does not occur in all sodium carbonate.

basalt

 a dark, fine-grained volcanic rock that forms from the solidification of lava

synonym: volcanic rock, lava, igneous rock

(1) basalt rock, (2) basalt glass

The hiking trail was lined with towering **basalt** columns.

undersea

adj. located or occurring beneath the surface of the sea synonym: underwater, subaquatic, marine

(1) undersea earthquake, (2) undersea habitat

The **undersea** environment is very different from the surface, with unique flora and fauna.

moor

 a large area of open country, typically on high ground, covered with rough grass or heath, especially in Britain

synonym: heath, upland, bog

(1) low- moor bog, (2) moor the ship

The rolling **moor** was a large, open area of high ground covered with heather.

mariner

n. a sailor or seaman; someone who works or travels on a boat or ship

synonym: sailor, seafarer, navigator

(1) mariner's compass, (2) seasoned mariner

The experienced **mariner** guided the ship through treacherous waters.

scurry

v. to move hurriedly and with little or no grace, often with sudden changes in direction

synonym: hasten, rush, dart

(1) **scurry** back and forth, (2) **scurry** about aimlessly

The squirrels tried to **scurry** up the tree to avoid the dog.

seasick

adj. feeling ill or nauseous as a result of being on a ship or boat that is moving or rocking back and forth in a rough sea; suffering from motion sickness

synonym: nauseous, seasickness, queasy

(1) avoid getting **seasick**, (2) **seasick** medication The rough waves made some passengers feel **seasick** during the boat ride.

featureless

adj. lacking distinctive qualities, characteristics, or features; plain, unremarkable, or nondescript

synonym: blank, plain, feature-free

(1) featureless landscape, (2) featureless interior

The wall was **featureless**, with no patterns or designs to break up its dullness.

sponge

- a soft material with many microscopic pores that can absorb a large amount of liquid and is used for washing and cleaning
- (1) sea **sponge**, (2) metallic **sponge**

The tiny marine **sponge** has existed for more than 500 million years.

holothurian

 a marine animal belonging to the class Holothuroidea, commonly known as sea cucumbers, characterized by their elongated bodies and presence in various oceanic environments

synonym: sea cucumber, sea slug, marine echinoderm

(1) holothurian species, (2) holothurian habitat

The marine biologist studied the behavior of the **holothurian** in its natural habitat.

slug

- a common name for any terrestrial gastropod mollusk that appears to lack a shell with soft and black or brown color; a bullet, a shot of alcoholic drink
- (1) lazy **slug**, (2) reduce **slug** damage I spotted a giant **slug** in the rain garden.

pyrolysis

n. a chemical reaction that occurs with the application of heat, resulting in the breakdown of material into smaller chemical components or constituents, often involving the release of gases or liquid byproducts

synonym: thermolysis, carbonization, conversion

(1) bio- pyrolysis, (2) pyrolysis plant

The **pyrolysis** of wood produces charcoal, which can be used as a fuel source.

centimeter

- a unit of measurement of length in the metric system, equivalent to one-hundredth of a meter
- (1) **centimeter** measurement, (2) thirty **centimeters** tall The room was only one **centimeter** wider than the piano, making it a tight fit.

reconstruct

v. to build or form something again that has been damaged or destroyed

synonym: rebuild, revamp, reorganize

- (1) **reconstruct** an image, (2) **reconstruct** the original text They've decided to **reconstruct** a ruined castle.
- a unit of measurement equal to one-millionth of a meter, used for measuring the size of particles and microorganisms

synonym: micrometer

(1) **micron** measurements, (2) **micron** imaging
The width of a single human hair is around 100 **microns**.

glacial

micron

 adj. relating to or resembling a glacier (= a slowly moving mass of ice) or the process of glaciation; characterized by an extremely slow or gradual pace or movement

synonym: cold, icy, frozen

(1) **glacial** movements, (2) **glacial** terrain

The **glacial** pace of the negotiations frustrated both parties.

unpopular

adj. not liked, supported, or approved by many people;having an unfavorable reputation

synonym: disliked, unloved, unsupported

(1) **unpopular** decision, (2) an **unpopular** opinion

The politician's stance on controversial issues made him an **unpopular** candidate for many voters.

shovel

 a tool with a handle and broad scoop or blade used for digging or moving Earth, coal, snow, or other granular materials

synonym: excavator, scoop, trowel

(1) snow **shovel**, (2) **shovel** blade

The construction workers used a power **shovel** to dig the foundation for the building.

fission

 the splitting of an atomic nucleus into two or smaller nuclei, releasing a large amount of energy; the process of breaking something into smaller parts or pieces

synonym: splitting, division, separation

(1) heavy-ion fission, (2) atomic fission

Nuclear **fission** is the process of splitting an atom into two smaller ones.

thorium

 a radioactive chemical element with the symbol Th and atomic number 90 that is silvery-white in color and is used as fuel in some nuclear reactors

synonym: Th, radioactive element

(1) **thorium** deposit, (2) **thorium** reactor

Certain isotopes of **thorium** are used in medicine for treating liver cancer.

turbulent

- adj. marked by a lot of sudden changes, confusion, or uncertainty; characterized by intense activity or agitationsynonym: chaotic, stormy, tumultuous
- (1) turbulent waves, (2) turbulent age

The stock market has been **turbulent** lately, with prices fluctuating rapidly.

Session 2: Spelling

1. tu____nt age

2. ma____r's compass

3. hit an ic___g

4. rec____ct the original text

5. obsolete fos____ed ways

receding ic___p

alkaline ca____te

8. pl___u in performance

9. br e bones

adj. marked by a lot of sudden changes,confusion, or uncertainty; characterizedby intense activity or agitation

 a sailor or seaman; someone who works or travels on a boat or ship

 a large piece of ice floating in the sea, detached from a glacier

v. to build or form something again that has been damaged or destroyed

adj. transformed into a fossil (= something preserved in rock for a very long period) or preserved in the form of a fossil; antiquated or inflexible

 a mass of ice that permanently covers a considerable area of land, typically found in polar regions

n. a carbonic acid salt or ester that contains the anion CO3

n. an elevated, relatively level expanse of land, typically vast and extending over a large area; a state or period of little or no change following a period of growth, development, or progress

adj. easily broken, cracked, or shattered when subjected to pressure or stress; lacking flexibility or resilience; fragile

ANSWERS: 1. turbulent, 2. mariner, 3. iceberg, 4. reconstruct, 5. fossilized, 6. icecap, 7. carbonate, 8. plateau, 9. brittle

10. posterior tele	n.	a flexible, mobile, and long arm-like organ used for feeling and holding things, catching food, or moving
11. above the eqr	n.	an line of latitude that separates Earth's northern and southern hemispheres and has a radius of around 40,075 kilometers (24,901 miles)
12. pyis plant	n.	a chemical reaction that occurs with the application of heat, resulting in the breakdown of material into smaller chemical components or constituents, often involving the release of gases or liquid byproducts
13. min measurements	n.	a unit of measurement equal to one-millionth of a meter, used for measuring the size of particles and microorganisms
14. ple into the water	v.	to dive quickly and steeply downward; to thrust or throw into something; (noun) a steep and rapid fall
15. an unar opinion	adj.	not liked, supported, or approved by many people; having an unfavorable reputation
16. cerebral hemre	n.	half of the terrestrial globe; half of a sphere
17. biological tamy	n.	the classification or scientific study of organisms, including their relationships to each other, based on shared characteristics and traits; a system of organizing and categorizing information in a particular field or subject area

ANSWERS: 10. tentacle, 11. equator, 12. pyrolysis, 13. micron, 14. plunge, 15. unpopular, 16. hemisphere, 17. taxonomy

18.	sek medication	adj.	feeling ill or nauseous as a result of being on a ship or boat that is moving or rocking back and forth in a rough sea; suffering from motion sickness
19.	bre material	adj.	easily broken, cracked, or shattered when subjected to pressure or stress; lacking flexibility or resilience; fragile
20.	feass landscape	adj.	lacking distinctive qualities, characteristics, or features; plain, unremarkable, or nondescript
21.	thm deposit	n.	a radioactive chemical element with the symbol Th and atomic number 90 that is silvery-white in color and is used as fuel in some nuclear reactors
22.	unea habitat	adj.	located or occurring beneath the surface of the sea
23.	a fosed grove	adj.	transformed into a fossil (= something preserved in rock for a very long period) or preserved in the form of a fossil; antiquated or inflexible
24.	scy about aimlessly	v.	to move hurriedly and with little or no grace, often with sudden changes in direction
25.	tamy system	n.	the classification or scientific study of organisms, including their relationships to each other, based on shared characteristics and traits; a system of organizing and categorizing information in a particular field or subject area
26.	a squid's tele	n.	a flexible, mobile, and long arm-like organ used for feeling and holding things, catching food, or moving
ΔΝ	SWERS: 18 spasick 19 brittle 20 fpa	tura	less 21 thorium 22 undersea 23

ANSWERS: 18. seasick, 19. brittle, 20. featureless, 21. thorium, 22. undersea, 23. fossilized, 24. scurry, 25. taxonomy, 26. tentacle

27.	holan habitat	n.	a marine animal belonging to the class Holothuroidea, commonly known as sea cucumbers, characterized by their elongated bodies and presence in various oceanic environments
28.	tunt waves	adj.	marked by a lot of sudden changes, confusion, or uncertainty; characterized by intense activity or agitation
29.	glI movements	adj.	relating to or resembling a glacier (= a slowly moving mass of ice) or the process of glaciation; characterized by an extremely slow or gradual pace or movement
30.	the shrinking icps in the Arctic	n.	a mass of ice that permanently covers a considerable area of land, typically found in polar regions
31.	seor exploration	n.	the bottom of the ocean
32.	reduce sg damage	n.	a common name for any terrestrial gastropod mollusk that appears to lack a shell with soft and black or brown color; a bullet, a shot of alcoholic drink
33.	m_r the ship	n.	a large area of open country, typically on high ground, covered with rough grass or heath, especially in Britain
34.	gll terrain	adj.	relating to or resembling a glacier (= a slowly moving mass of ice) or the process of glaciation; characterized by an extremely slow or gradual pace or movement

ANSWERS: 27. holothurian, 28. turbulent, 29. glacial, 30. icecap, 31. seafloor, 32. slug, 33. moor, 34. glacial

35.	ple a dagger through his heart	v.	to dive quickly and steeply downward; to thrust or throw into something; (noun) a steep and rapid fall
36.	cener measurement	n.	a unit of measurement of length in the metric system, equivalent to one-hundredth of a meter
37.	sea spe	n.	a soft material with many microscopic pores that can absorb a large amount of liquid and is used for washing and cleaning
38.	scy back and forth	ν.	to move hurriedly and with little or no grace, often with sudden changes in direction
39.	unar decision	adj.	not liked, supported, or approved by many people; having an unfavorable reputation
40.	thirty ceners tall	n.	a unit of measurement of length in the metric system, equivalent to one-hundredth of a meter
41.	plu region	n.	an elevated, relatively level expanse of land, typically vast and extending over a large area; a state or period of little or no change following a period of growth, development, or progress
42.	volcanic sent	n.	an underwater mountain or volcano that rises from the ocean floor but does not reach the surface, often forming a peak or cone-shaped landform
43.	south of the eqr	n.	an line of latitude that separates Earth's northern and southern hemispheres and has a radius of around 40,075 kilometers (24,901 miles)

ANSWERS: 35. plunge, 36. centimeter, 37. sponge, 38. scurry, 39. unpopular, 40. centimeter, 41. plateau, 42. seamount, 43. equator

44.	holan species	n.	a marine animal belonging to the class Holothuroidea, commonly known as sea cucumbers, characterized by their elongated bodies and presence in various oceanic environments
45.	unea earthquake	adj.	located or occurring beneath the surface of the sea
46.	recct an image	<i>v</i> .	to build or form something again that has been damaged or destroyed
47.	metallic spe	n.	a soft material with many microscopic pores that can absorb a large amount of liquid and is used for washing and cleaning
48.	snow shI	n.	a tool with a handle and broad scoop or blade used for digging or moving Earth, coal, snow, or other granular materials
49.	atomic fin	n.	the splitting of an atomic nucleus into two or smaller nuclei, releasing a large amount of energy; the process of breaking something into smaller parts or pieces
50.	underwater sent	n.	an underwater mountain or volcano that rises from the ocean floor but does not reach the surface, often forming a peak or cone-shaped landform
51.	sodium cate	n.	a carbonic acid salt or ester that contains the anion CO3
52.	an ab_s of hopelessness	n.	a deep, dark, or seemingly bottomless chasm or void

ANSWERS: 44. holothurian, 45. undersea, 46. reconstruct, 47. sponge, 48. shovel, 49. fission, 50. seamount, 51. carbonate, 52. abyss

53.	min imaging	n.	a unit of measurement equal to one-millionth of a meter, used for measuring the size of particles and microorganisms
54.	heavy-ion fin	n.	the splitting of an atomic nucleus into two or smaller nuclei, releasing a large amount of energy; the process of breaking something into smaller parts or pieces
55.	bat rock	n.	a dark, fine-grained volcanic rock that forms from the solidification of lava
56.	avoid getting sek	adj.	feeling ill or nauseous as a result of being on a ship or boat that is moving or rocking back and forth in a rough sea; suffering from motion sickness
57.	feass interior	adj.	lacking distinctive qualities, characteristics, or features; plain, unremarkable, or nondescript
58.	thm reactor	n.	a radioactive chemical element with the symbol Th and atomic number 90 that is silvery-white in color and is used as fuel in some nuclear reactors
59.	icg melting	n.	a large piece of ice floating in the sea, detached from a glacier
60.	bio-pyis	n.	a chemical reaction that occurs with the application of heat, resulting in the breakdown of material into smaller chemical components or constituents, often involving the release of gases or liquid byproducts

ANSWERS: 53. micron, 54. fission, 55. basalt, 56. seasick, 57. featureless, 58. thorium, 59. iceberg, 60. pyrolysis

- 61. se____or mapping
- 62. low-m_r bog
- 63. seasoned ma____r
- 64. lazy s g
- 65. ba t glass
- 66. the ab__s of time
- 67. sh | I blade
- 68. northern hem____re

- *n*. the bottom of the ocean
- a large area of open country, typically on high ground, covered with rough grass or heath, especially in Britain
- n. a sailor or seaman; someone who works or travels on a boat or ship
- a common name for any terrestrial gastropod mollusk that appears to lack a shell with soft and black or brown color; a bullet, a shot of alcoholic drink
- *n.* a dark, fine-grained volcanic rock that forms from the solidification of lava
- n. a deep, dark, or seemingly bottomless chasm or void
- a tool with a handle and broad scoop or blade used for digging or moving Earth, coal, snow, or other granular materials
- n. half of the terrestrial globe; half of a sphere

ANSWERS: 61. seafloor, 62. moor, 63. mariner, 64. slug, 65. basalt, 66. abyss, 67. shovel, 68. hemisphere

Session 3: Fill in the Blanks

1.	The dinosaur bones were so old that they had been wholly turning to stone over millions of years.
adj	transformed into a fossil (= something preserved in rock for a very long period) or preserved in the form of a fossil; antiquated or inflexible
2.	The tiny marine has existed for more than 500 million years.
n.	a soft material with many microscopic pores that can absorb a large amount of liquid and is used for washing and cleaning
3.	chains are formed by the movement of a tectonic plate over a hotspot.
n.	an underwater mountain or volcano that rises from the ocean floor but does not reach the surface, often forming a peak or cone-shaped landform
4.	The marine biologist studied the behavior of the in its natural habitat.
n.	a marine animal belonging to the class Holothuroidea, commonly known as sea cucumbers, characterized by their elongated bodies and presence in various oceanic environments
5.	The ship encountered a series of and had to change its course.
n.	a large piece of ice floating in the sea, detached from a glacier
6.	The rolling was a large, open area of high ground covered with heather.
n.	a large area of open country, typically on high ground, covered with rough grass or heath, especially in Britain
7.	They've decided to a ruined castle.
<i>v</i> .	to build or form something again that has been damaged or destroyed
	SWERS: 1. fossilized, 2. sponge, 3. Seamount, 4. holothurian, 5. icebergs, 6. or, 7. reconstruct

16. The politician's stance on controversial issues made him an candidate for many voters.
adj. not liked, supported, or approved by many people; having an unfavorable reputation
17. The oceanographer studied the topography to understand how it had changed over time.
n. the bottom of the ocean
18. The pace of the negotiations frustrated both parties.
adj. relating to or resembling a glacier (= a slowly moving mass of ice) or the process of glaciation; characterized by an extremely slow or gradual pace or movement
19. The construction workers used a power to dig the foundation for the building.
 a tool with a handle and broad scoop or blade used for digging or moving Earth, coal, snow, or other granular materials
20. The environment is very different from the surface, with unique flora and fauna.
adj. located or occurring beneath the surface of the sea
21. The hiking trail was lined with towering columns.
n. a dark, fine-grained volcanic rock that forms from the solidification of lava
22. The police caught the fugitive criminal in the of an expanded investigation.
n. a flexible, mobile, and long arm-like organ used for feeling and holding things, catching food, or moving
ANSWERS: 16. unpopular, 17. seafloor, 18. glacial, 19. shovel, 20. undersea, 21. pasalt, 22. tentacles

Vocab-Builder Ref from "Laura Robinson: The secrets I find on the mysterious ocean floor | TED Talk" (34 words)

the classification or scientific study of organisms, including their relationships to each other, based on shared characteristics and traits; a system of organizing and categorizing information in a particular field or subject area

33. The melting _____ are a clear indication of climate change.

- n. a mass of ice that permanently covers a considerable area of land, typically found in polar regions
- 34. Ecuador is on the _____.

species.

n. an line of latitude that separates Earth's northern and southern hemispheres and has a radius of around 40,075 kilometers (24,901 miles)

ANSWERS: 31. abyss, 32. taxonomy, 33. icecaps, 34. equator